

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent application of:

Applicant: Stefan Vilsmeier  
Serial No.: 10/083,041  
Filing date: February 26, 2002  
Title: NEURO-NAVIGATION SYSTEM  
Examiner: Francis J. Jaworski  
Art Unit: 3737  
Docket No. SCHWP0110USB

**REQUEST FOR ACKNOWLEDGMENT OF CONSIDERATION OF  
DOCUMENTS SUBMITTED WITH INFORMATION DISCLOSURE STATEMENT**

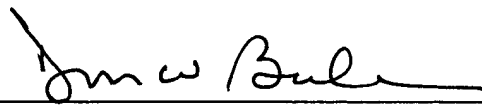
MS ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

A post-allowance review of the subject application has revealed that the Examiner has not yet provided an acknowledgment of consideration of the documents cited on pages 2 and 3 of the Information Disclosure Statement(s) submitted on May 29, 2002. The Examiner is requested to acknowledge consideration of each cited document and, for the Examiner's convenience, attached is a copy of the PTO-1449 form(s) submitted with the Information Disclosure Statement(s).

Respectfully submitted,

RENNER, OTTO, BOISSELLE & SKLAR, LLP

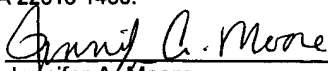
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CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this paper (along with any paper or thing referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: MS ISSUE FEE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: 10-1-04

  
Jennifer A. Moore

Form PTO-1449 (Modified)

Atty Docket No.

Serial No.

SCHWP0110USB

10/083,041

LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT

Applicant:

Stefan Vilsmeier

Filing Date

February 26, 2002

Group

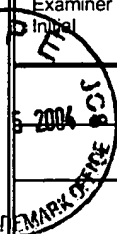
3737

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

| Examiner Initial | Document Number | Date (MM/YYYY) | Name               | Class | Sub-class | Filing Date if Appropriate |
|------------------|-----------------|----------------|--------------------|-------|-----------|----------------------------|
|                  | 4,722,056       | 01/1988        | Roberts et al.     |       |           |                            |
|                  | 4,791,934       | 12/1988        | Brunnett           |       |           |                            |
|                  | 4,860,331       | 08/1989        | Williams et al.    |       |           |                            |
|                  | 4,955,891       | 09/1990        | Carol              |       |           |                            |
|                  | 5,197,476       | 03/1993        | Nowacki et al.     |       |           |                            |
|                  | 5,230,338       | 07/1993        | Allen et al.       |       |           |                            |
|                  | 5,251,127       | 10/1993        | Raab               |       |           |                            |
|                  | 5,295,483       | 03/1994        | Nowacki et al.     |       |           |                            |
|                  | 5,305,203       | 04/1994        | Raab               |       |           |                            |
|                  | 5,309,913       | 05/1994        | Kormos et al.      |       |           |                            |
|                  | 5,315,630       | 05/1994        | Sturm et al.       |       |           |                            |
|                  | 5,320,462       | 06/1994        | Johanson et al.    |       |           |                            |
|                  | 5,383,454       | 01/1995        | Bucholz            |       |           |                            |
|                  | 5,389,101       | 02/1995        | Heilbrun et al.    |       |           |                            |
|                  | 5,394,457       | 02/1995        | Leibinger et al.   |       |           |                            |
|                  | 5,394,875       | 03/1995        | Lewis et al.       |       |           |                            |
|                  | 5,397,329       | 03/1995        | Allen              |       |           |                            |
|                  | 5,411,026       | 05/1995        | Carol              |       |           |                            |
|                  | 5,446,548       | 08/1995        | Gerig et al.       |       |           |                            |
|                  | 5,494,034       | 02/1996        | Schlöndorff et al. |       |           |                            |
|                  | 5,551,429       | 09/1996        | Fitzpatrick et al. |       |           |                            |
|                  | 5,588,430       | 12/1996        | Bova et al.        |       |           |                            |
|                  | 5,603,318       | 02/1997        | Heilbrun et al.    |       |           |                            |
|                  | 5,617,857       | 04/1997        | Chader et al.      |       |           |                            |
|                  | 5,622,170       | 04/1997        | Schultz            |       |           |                            |





| Examiner Initial | Document Number | Date (MM/YYYY) | Name             | Class | Sub-class | Filing Date if Appropriate |
|------------------|-----------------|----------------|------------------|-------|-----------|----------------------------|
|                  | 5,630,422       | 05/1997        | Zanakia          |       |           |                            |
|                  | 5,630,431       | 05/1997        | Taylor           |       |           |                            |
|                  | 5,643,268       | 07/1997        | Vilsmeier et al. |       |           |                            |
|                  | 5,662,111       | 09/1997        | Cosman           |       |           |                            |
|                  | 5,676,673       | 10/1997        | Ferre et al.     |       |           |                            |
|                  | 5,681,326       | 10/1997        | Lax              |       |           |                            |
|                  | 5,682,890       | 11/1997        | Kormos et al.    |       |           |                            |
|                  | 5,695,500       | 12/1997        | Taylor et al.    |       |           |                            |
|                  | 5,695,501       | 12/1997        | Carol et al.     |       |           |                            |
|                  | 5,704,897       | 06/1998        | Truppe           |       |           |                            |
|                  | 5,748,767       | 05/1998        | Raab             |       |           |                            |
|                  | 5,755,725       | 05/1998        | Druais           |       |           |                            |
|                  | 5,769,861       | 06/1998        | Vilsmeier        |       |           |                            |
|                  | 5,772,594       | 06/1998        | Barrick          |       |           |                            |
|                  | 5,836,954       | 11/1998        | Heilbrun et al.  |       |           |                            |
|                  | 5,851,183       | 12/1998        | Bucholz          |       |           |                            |
|                  | 5,921,992       | 07/1999        | Costales et al.  |       |           |                            |

## FOREIGN PATENT DOCUMENTS

| Examiner Initial | Document Number | Date (MM/YYYY) | Country | Class | Sub-class | Translation |    |
|------------------|-----------------|----------------|---------|-------|-----------|-------------|----|
|                  |                 |                |         |       |           | Yes         | No |
|                  | 94/23647        | 10/1994        | WO      |       |           |             |    |
|                  | 296 00 990 U1   | 05/1996        | DE      |       |           |             |    |
|                  | 41 34 481 A1    | 04/1993        | DE      |       |           |             |    |

## OTHER ART

| Examiner Initial | Author, Title, Date, Pertinent Pages, etc.  |
|------------------|---|
|                  | Adams, Ludwig et al., "Computer-Assisted Surgery", May 1990, pages 43-51.                                       |
|                  | Aesculap, SPOCS Surgical Planning and Orientation Computer System, 4 pages.                                     |
|                  | Alvertos, Nicolas, "Camera Geometrics for Image Matching in 3-D Machine Vision", September 1989, pages 897-915. |
|                  | "The BrainLAB Neuronavigation System".  |
|                  | Castleman, Kenneth R., "Digital Image Processing", pages 364-369  |

| Examiner Initial | Author, Title, Date, Pertinent Pages, etc.  |
|------------------|---|
|                  | Dhond, Umesh R., "Structure from Stereo - A Review", December 1989, pages 1489-1510.  |
|                  | Foley, J.D. et al., "Fundamentals of Interactive Computer Graphics", July 1984, pages 245-266.  |
|                  | Gonzalez, Rafael C. et al., "Digital Image Processing", November 1987, pages 52-54.   |
|                  | Herausgegeben von Hubert Leitner et al., "Fixierung, Positionierung und Bewegungsüberwachung des Patienten in der Ganzkörperstereotaxie", September 11-14, 1996, pages 271-274. |
|                  | Karlsson, Dan, "Kinematic Gait Analysis Using the Macreflex System", pages 52-58.   |
|                  | Kelly, Rick J., "Volumetric Stereotactic Surgical Resection of Intra-axial Brain Mass Lesions", pages 1186-1198.  |
|                  | Kosugi, Yukio et al., "An Articulated Neurosurgical Navigation System Using MRI and CT Images", February 1988, pages 147-152.   |
|                  | Radionics, The Operating Arm, 1996, 6 pages.  |
|                  | Sofamor Danek, Stealth Station Image Guided Surgery System, 1996, 6 pages.  |
|                  | Stone, Harold S., "Moving Parts of an Image", page 254.   |
|                  | Tan, Kim K. et al., "A Frameless Stereotactic Approach to Neurosurgical Planning Based on Retrospective Patient-Image Registration", August 1993, pages 296-303.                |
|                  | Von Hanwehr, Roger et al., "Computerized Medical Imaging and Graphics", 1994, pages 292-299.  |
|                  | Wolff, Robert S. et al., "Visualization of Natural Phenomena", pages 66-67.   |
|                  | Wolfe, William L. et al., "The Infrared Handbook", 1978, pages 63-77.   |
|                  | Young, Ronald F., "Application of Robotics to Stereotactic Neurosurgery".   |
|                  | Zeiss, Carl, Stereotactic Systems, 1995, 8 pages.   |

|          |                 |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Information Disclosure Statement PTO-1449 (Modified)

The identification of any reference is not intended to be, and should not be understood as being, an admission that such publication, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given reference may have a later effective date than first seems apparent or the reference may have an effective date which can be antedated. The "prior art" status of any reference is a matter to be resolved during prosecution.